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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,217	04/16/2004	Hiroki Kusakabe	43888-299	8308
7590 07/05/2006  MCDERMOTT, WILL & EMERY 600 13th Street, N.W.			EXAMINER	
			WILLIAMS, SHERMANDA L	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
	•		1745	
			DATE MAILED: 07/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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1		Application No.	Applicant(s)				
Office Action Summary		10/825,217	KUSAKABE ET AL.				
		Examiner	Art Unit				
		Shermanda L. Williams	1745				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[]	Responsive to communication(s) filed on 26 Ap	oril 2006.					
•—	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	Claim(s) 1-11 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-11</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
-	The specification is objected to by the Examine						
-	The drawing(s) filed on is/are: a)☐ acce						
	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> </ul>							
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Inform	e of Dransperson's Patent Drawing Review (P10-946) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## **FUEL CELL WITH RECOMBINATION CATALYST**

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#### Oath/Declaration

The specification to which the declaration is directed has been adequately identified.

## **Drawings**

Applicant's explanation of drawing denotation is accepted. The objection to Figure 1 of the drawings is withdrawn.

### Response to Arguments

- 1. In response to applicant's argument that there is no suggestion to combine the Murakami et al. and Bailey et al. references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).
- 2. In this case, Bailey (US 6,638,650) presents several applicable techniques or embodiments of the invention for detecting leakage in a solid polymer fuel cell stack. Some of the embodiments presented for leakage detection instruct one to supply both the fuel flow and the oxidant flow during the testing period. Other embodiments as

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discussed below instruct one to only introduce one reactant (the fuel gas) to the cell undergoing testing. Therefore it is clear that ...the stoppage of either said fuel gas or said oxidant gas and the introduction of another gas... as stated in claim 1 of the current application is made obvious when the Murakami et al. and Bailey et al. references are combined. The intended purpose of Bailey et al. to provide several applicable methods of detecting leakage in a solid polymer fuel cell is not compromised or rendered inoperable. The various techniques presented have different flow combination requirements (see claims). The teachings of Murakami et al. is not compromised or rendered inoperable in any way by combing with Bailey et al. to produce a technique that stops one of the reactant flows rather than both. Claim 1 does not require the stoppage of both reactant gases. (Column 1 lines 43-56 explains what Bailey et al. considers to be the content of the fuel and oxidant flow stream.)

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- 3. The embodiment of the invention given in column 3 line 65 to column 4 lines 6 of Bailey et al. gives the instruction. to introduce only the fuel fluid stream and an inert gas during the leakage testing period. There is no oxidant flow supplied to the cell during the leakage testing per this embodiment of the invention. The oxidant fluid flow has been stopped during the performance of this testing technique.
- 4. The embodiment or technique given in column 4 lines 44-59 of Bailey et al. instructs one to only supply fuel and inert gas to the cell during the leakage evaluation period. The oxidant fluid flow has been stopped during the performance of this testing technique. There is no oxidant flow supplied to the cell during the leakage testing per this embodiment of the invention.

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5. Applicant's arguments filed 4/26/2006 have been fully considered but they are not persuasive. Claims 1-11 remain rejected on the grounds presented in the Office Action dated January 26, 2006.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shermanda L. Williams whose telephone number is (272) 571-8915. The examiner can normally be reached on Mon.-Thurs. 7 AM - 4:30 PM and alternating Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Patrick Ryan can be reached on (272) 571-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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STEPHEN KALAFUT RIMARY SXAMINER

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